ATT THE TOTAL THE TANK THE TAN	Errors Corrected by the STIC Spems Branch  CRF Processing Date: 2 /6/2000
Serial N	CRF Processing Date: 2/6/2000 Edited by: Verified by: Ver
	Changed the margins in cases where the sequence text was whated down to the next line.
	Edited a format error in the Current Application Data section, specifically:
-	Edited the Current Application Data section with the actual current number. The number inputted by the applicant was the prior application data; or other
	Added the mandatory heading and subheadings for "Current Application Data".
	Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
	Changed the spelling of a mandatory field (the headings of subheadings), specifically:
	Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited we're:
	Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:
	Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
	Inserted colons after headings/subheadings. Headings edited included:
	Deleted extra, invalid, headings used by an applicant, specifically:
	Deleted: non-ASCII "garbage" at the beginning/end of files; secretary initials/filename at end of file; page numbers throughout text; other invalid text, such as
	Inserted mandatory headings, specifically:
	Corrected an obvious error in the response, specifically:
	Edited identifiers where upper case is used but lower case is required, or vice versa.
	Corrected an error in the Number of Sequences field, specifically:
	A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
	Deleted ending stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a Patentin bug). Sequences corrected:
	Other: Segr 46-concerted amend and hos.
	Topics of the second of the se

LExaminer: The above corrections must be communicated to the applicant in the first Office 3/1/95 Action. DO NOT send a copy of this form. 

 RAW SEQUENCE LISTING
 DATE: 12/14/2000

 PATENT APPLICATION: US/09/715,962
 TIME: 19:48:26

Input Set : At\Pto.amc

Output Set: N:\CRF3\12142000\1715962.raw

3 <110> APPLICANT: Bower Aktiengesellschaft 5 - 1202 TITLE OF INVENTION: GARA-B-Rezeptoren 7 /150> FILE REFERENCE: Lo A 34 074 C--> 9 <140> CURRENT APPLICATION NUMBER: US/09/715,962 C--> 10 <141> CURRENT FILING DATE: 2000-11-17 12 -156% PRIOR APPLICATION NUMBER: DE 199 55 408.0 13 <151% PETOR FILING DATE: 1999-11-18 45 F160> NUMBER OF SEQ ID NOS: 6 17 - 170> SOFTWARE: PatentIn Ver. 2.1 15 <210> SEQ 15 NO: 1 26 -211> IFNGTH: 2523 21 <212> TYPE: DNA 22 <213> ORGANISM: Drosophila melanogaster 24 <220> FRATURE: 25 KARLE NAMEZKRY: CDS 26 <222> LOCATION: (1)..(2520) 28 <400> SEQUENCE: 1 29 and one awa got and aca age gut got get get acg tit ing and tit 30 Mot Arg Lys Asp Met Thr Ser Asp Gly Ala Val Thr Phe Trp 11e Phe 31 1 5 10 33 the ctt tet the and ecc too doe one one gap gen end ecc gap 34 Leu Leu Cys Leu lie Ala Ser Pro His Leu Gln Gly Gly Val Ala Gly 20 25 3.0 37 and occ dat goalety can all ugo goo ato till dog ata goo goo daa 38 Arg Pro Asp Glu ben His the Gly Gly The Phe Pro Lie Ala Gly Lys 39 35 40 4.5 41 qqu qqu tag cug gae gae cag geg tgt atg eet gee aca aga etg geg 42 Gly Gly Trp Gln Gly Gly Gln Ala Cys Met Pro Ala Thr Arg Len Ala 4.3 5.0 55 45 the got gat gir age and can be at the end gue the and the 46 Leu Asp Asp Val Ash Lys Gln Pro Ash Leu Pro Gly Phe Lys Leu 47 65 70 75 80 17 65 49 atc etg cae ago and gad ago gag tgt gag dee ggt ttg ggd gen ago 288 50 Lie Leu His Ser Asn Asp Ser Glu Cys Glu Pro Gly Leu Gly Ala Ser 85 90 53 gtg atg tac aat ctg ctc tat aat aaa ceg caa aag ctg atg ctg ttg 54 Val Met Tyr Ash Len Leu Tyr Ash Les Pro Gla Lys Leu Met Leu Len 55 100 105 110 57 goa qua the are are the the are act bla nee gay hel nee aaa alg 58 Ala Gly Cys Ser Thr Val Cys Thr Thr Val Ala Glu Ala Ala Lys Met 59 115 120 120 61 typ aat cta att gig etc toe tac gog yee tog agt cop get ett teg 62 Trp Ash Leu Lie Val Leu Cys Tyr Gly Ala Ser Ser Pro Ala Leu Ser 135 140. 65 gat eye ama ega the edo act claitte ege ade cut com teg ged acg 66 Asp Arg Lys Arg Phe Pro Thr Leu Phe Arg Thr His Pro Ser Ala Thr 155

 RAW SEQUENCE LISTING
 DATE: 12/14/2000

 PAPENT APPLICATION: US/09/715,962
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169	aaq	gte	tigg	cqt.	gtq	cat	egt.	crt.	aca	aga	aaa	gea	aaa	act	qac	cca	1728
i 70	Lys	Va.l	тгр	Arg	Val	His	Ang	Plie	Thr	Thr	L. S	ΛLa	Lys	Thr	Asp	Pro	
17.1					565					570					575		
173	aag	aaa	aaa	gtg	gan	cet	t.gg	aag	cta	tac	acc	atg	gtt	reg	ggg	ota	1776
	1.7 s	Lys	L/s		CT0	0.19	$\operatorname{qu} T$	Lys		$\mathrm{T}/\mathrm{r}$	Thir	Mest	Val		G17	Leu	
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248	Met.	Arg	Lys	Asp	Met.	Thr	Ser	Asp	61.7	A.l a	Val.	Thr	Phe	Trp	He	Phe	
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254	Arq	$b \tau o$	Asp	$\operatorname{Gl} \mathfrak{u}$	Leu	His	11e	GLy	617	He	Phe	Pro	De	Ala	Gly	L/s	
255			35					40					45				
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258		50					5.5					60					
260	Leau	Asp	Asp	Val	Asn	$\mathrm{hys}$	$\operatorname{Gl} n$	Pro	Asn	Leu	0.941	Pro	G15	Phi	1.78	Leu	
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	11€	Lou	His	ser		$_{\rm Asp}$	Ser	GLu	Cys	Clu	bro	$C1\lambda$	Leu	GLY	Ala	ser	
264					8.5					9 (1					95		
266	Val	Met	TY	Asn	Letu	heu	Туг	Asn	Lys	Pro	Gln	Lys	lieu	Met	Leu	Leu	

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282	a.1			180					185					190		
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285			195					200					205			
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204					245					250					255	
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297				260					265					270		
	Asn	19711		Ala	GIO	GLy	TTe		Cys	Th t	Vai	Glu		Met.	$\Delta r =$	T 1.42
300			275					580					285			
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303		590					295					300				
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304	305					310					315					320
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315			355					360					365			
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318		370					375					380				
		Life	Tyr	Ala	A.Lo		Asn	ser	Th r	G.l n		Le: u	GIZ	Va.l	ser	
321	385					390					395					400
	Va.l	Vial	Ala	blie		Ser	GLn	$G1\gamma$	Asp		He	Ala	Len	Thr		He
324					4.05					410					4.15	
	Glu	Gin	Me≀t.		Asp	G.l.y	Lys	īγr		$L\gamma s$	Leu	617	Туr		Asp	Thr
327				420					425					430		
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330			135					440					445			
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333		450					4.55					460				
		Leu	Pro	Legu	Phe		Cys	Met.	Cys	Thr		ser	ser	Cys	Gly	
336	465					470					475					480
	Phe	Val	Ala	Pho		Leu	14.e	Tle	Phe		He	Trp	Asn	L/S		Arg
339					485					490					495	

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/715,962

MATE: 12/14/2000 TIME: 19:48:27

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4:9 8:270 C: Current Application Number differs. Replaced Application Number 1:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date

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PATENT APPLICATION: US/09/715,962

DATE: 12/06/2000 TIME: 15:14:42

Input Set : A:\LeA34074.txt

Output Set: N:\CRF3\12062000\1715962.raw

Does Not Comply Corrected Diskette Needed

f willow APPLICABL: Suyor Aktiongosoflschaft
5 \$120: TATLE OF INVENTION: GABA-B-Redeptoren
1 \$1365 FILE RITERENCE: Le A 44 074
C--> 9 \$140> CURRENT APPLICATION NUMBER: US/09/715,962
C--> 10 \$141> CURRENT FILING DATE: 2000-11-17
12 \$150> PRIOR APPLICATION NUMBER: DE 199 55 468.0
13 \$151- PRIOR FILING DATE: 1999-11-18
15 \$130> NUMBER OF SEQ ID NOS: 6
17 \$170> SOFTWARE: FALENTIN Yer. 2.7

## ERRORED SEQUENCES

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731 </13> OmGANTSM: Drosophila melanogaster
733 <400> SEQUENCE: 4
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735
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7.38 -2.0 -2.5 -3.0 -4.0 He Ala Gly Phe Phe Pro Tyr Gly Asp Gly Val Glu Asn Ser Tyr Thr
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743 Gly Arg Gly Val Met Pro Ser Val Lys Leu Ala Leu Gly His Val Asn
344 50
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746 Glu His Gly Lys fle Leu Ala Asn Tyr Arg Leu His Met Trp Trp Asn
747 65
                      7.0
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749 Asp Thr Gln Cys Asn Ala Ala Val Gly Val Lys Ser Phe Phe Asp Met
350
                  8.5
                                     90
752 Het His Ser Gly Pro Asn Lys Val Met Leu Phe Gly Ala Ala Cys Thr
          100
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755 His Val Thr Asp Pro Tle Ala Lys Ala Ser Lys His Trp His Leu Thr
756 3.15
                           120
                                               125
75% Old Leu Ser Tyr Ale Asp Thr His Pro Met. Pho Thr Lys Asp Ala Phe
759 130
                         135
                                         140
761 Pro Asn Phe Phe Ary Val Val Pro Ser Glu Asn Ala Phe Asn Ala Pro
762 145
                    150
                                       155
764 Arg Leu Ala Ieu Leu Lys Glu Phe Asn Trp Thr Arg Val Gly Thr Val
                165
                                  3.70
767 Tyr Gln Ash Glu Pro Arg Tyr Ser Leu Pro His Ash His Met. Val Ala
768
       180
                               1.85
                                                 190
776 Asp Len Asp Ala Met Glu Val Glu Val Glu Thr Gln Ser Phe Val
771 195
                          300
                                            205
773 Asn Asp Val Ala Glu Ser Leu Lys Lys Leu Arg Glu Lys Asp Val Arg
774 210
                        215
                                         220
776 the The Leu Cly Asa Phe Asa Glu His Phe Ala Arg Lys Ala Phe Cys
```

RAW SEQUENCE LISTING .%11.01 APPRICATION: US/09/715,962 DATE: 12/06/2000 HIME: 15:14:12

Input Set : A:\LeA34074.txt
emrput Set: N:\CRF3\12062000\1715962.raw

7-7	225					330					235					246
270	C1u	Ala	$\Gamma$ . $\Gamma$	LVS	Lea	ASD	Het	191	CIT	Arq	Ala	15r	Gln	Inu	Len	
2F0					4.7	•			·	250					35,5	
77.5	Mot	AAa	the	1yy	Sez	Inv	7.80	1.00	Lep	Asn	Va.	Thur	dAn	250	802	6 lu
783				264)				•	265					3.70		
785	Cys	$Set3^{\circ}$	Val	Glu	Giu	14e	Alu	Tha	Ala	Lou	Glu	GIV	Ala	He	Lou	Va L
776			275					280				•	385			
is 8	Asp	feu	1.00	Pro	1,750	Sor	Thr	Ser	Gly	Asp	110	Thr	Va l	Ala	GTV	110
789		290					295			-		300				
~41	Ihc	A.! a	$\mathrm{As}\wp$	olu	Tyr	Len	Val	GEU	$1  \mathrm{vr}$	$\delta$ SD	Arq	Len	Arg	$G1_{4}^{\infty}$	Ihr	Glu
792	305					310					315					320
	$T \not = \Gamma$	$Ser \Gamma$	$F(\Gamma i)$	Phe	His	GLy	1,1	Thr	IVI	Asp	$61\mathrm{y}$	Tie	1rp	Ala	Alla	Ala
795					325					330					335	
797	Letu	ATa	11e	GIn	$T\gammav$	Val	$\alpha_{\rm LLA}$	Clu	$T_{i} \vee S_{i}$	Arq	Giu	Asp	i.eu	LQu	Thr	Hi s
798				340					345					350		
	$_{\mathrm{Phe}}$	Asp		A.ru	Val	1.78	Asp	Trp	Glu	Ser	Va l	Phe	Leu	Glu	Alla	Len
801			355					360					365			
	Arg		thr.	Ser	Phe	Gln		Va I.	Thr	Gly	610	Val	Arg	Pho	Γyr	ASII
804		370					375					380				
		Glu	Arg	Lys	Ala		116	Len	116	Asn		ьрь	64.0	Leu	GLY	G1n
H07	385					390					395					400
800	Иet,	G I, u	Lys	rre	GLY	Glu	Tyr	His	ser		Lys	Se.r	His	Leu		t.eu
810					405					4.10					415	
812	Ser	1.0 0	617		P.ro	val	LVS	Lit		CTA	Lys	1111	h.ro		Lys	Asp
813		21	*	420	15		71 L	***	425					430		
816	ard	1111.	435	TIC	17r	£ 111	(1,1,1)	440	SOL	13.11	Val	asn		THE	.t.1 @	1500
818	110	0 5 1		A 1 o	Ser	Ala	Car		Tito	clu	Vo. 1	f.1.5	445	20.14.	12" ks se	on t
819	21 (	45(1	064	21 1 G	7.167 E	mia	455	V (1 ].	1 1/62	G.L y	vai	460	rie	ALU	flit	Va.t
821	Oho		Δ 1 :+	uho	Asn	11.5		and e	ana	Ado	Cln		Page	11.5	Lve	Hor
822	465	1 4	1.3,14	1 110	21317	470	210	, j .r	TIT H	non.	475	arg	Lyi	1 1, 0.	127.5	480
824		Ser	Pro	His	Leu		Asn	Len	TIE	110		619	ės s	Met	T 1 to	Thir
825					18					490	,		-,		493	
827	Dar	Leu	Ser	116	.1 J.e	Pho	Leu	GIV	Len		Thr	Thr	Len	ser		Vaci
828				Sau					505	,				510		
830	Ata	Ala	Pho	Pro	Tyr	Ile	Cys	Thr	Ala	A.r.q	Ala	Tro	110		Het	Ala
83.1			5.15		•			520		-		•	525			
833	GLy	Phe	Ser	Lou	Ser	Phe	619	Ala	Het	Phe	ser	Lys	Thr	Trp	Arq	Val.
834		530					535					540		•		
836	Нis	ser	1.1c	Pho	Thr	Asp	Lou	Lys	Len	Asn	Lys	Lys	Val	110	Lys	Asp
837	545					550					555					560
839	Tyr	${\rm GI}{\rm n}$	Leu	Phe	Het	۷a J.	Val	$G1\gamma$	Val	Leu	Leu	Ala	11e	Asp	He	Ala
840					565					<b>5</b> 70					575	
842	116	Ule	Thr		Trp	Gln	The	Ala		$P_{\perp}O$	Phe	Тул	Arg		Thr	Lys
843				580					585					590		
	GIn	Leu		Pro	Leu	His	His		Asn	Ile	Asp	Asp		1.60	Val	1 l.e
846			595					600					605			
	b.r.o		asn	GLu	Tyr	Cys		Ser	Glu	His	Met		Tle	Phe	Vāl	Ser
849		6.14					6.15					620				

RAW SEQUENCE LISTING #A11: 12/66/2000 PATENT APPLICATION: US/09/715,962 HIME: 15:70:12

Input Set : A:\LeA34074.txt
curpur Set: N:\CRF3\12062000\1715962.raw

		$13\alpha$	$T\gamma x$	Alu	fyt		G1/	Leu	$L\phi u$	Len		P116	${\rm cri} \lambda$	A1a	Phy	
	625					639					635					640
1534 157	7.1 a	1Tb	G I.n	Thr	A10 645	His	Val	Sirr	Lle	P1'0	7.1 u	Leu	ASII	Asp	ser 555	$L_{\mathcal{F}}^{*}S$
3.7	ші е	110	ch.	tilio		Va 1	3	2 (12)	Mari		rla	Thom	Cons	1		01
3.58	015	lle	Cr L. y	66b	261	ANT	172	កភព	64.5	PHO	110	THE	1.78	670	Alu	GIV
250	Ada	All a	14.6	Sect	1.00	val	Lea	$S \cap I$	Asp	Arg	1.73	Asic	i.eu	Vall	trive	Val.
24.1			675					680					685			
9.000	LOU	1.690	$\mathbb{S}\otimes \mathbb{L}$	Phe	Pho	1.16	116	Phe	$T_{i,j}^{*} \leq$	Tur	Thr		1 har	1.04	$C_1^*S$	Len
654		690					095					700				
		1.1361	Val	Pro	Lys		Val	Glu	i.eu	1.75	Arg	Asu	${\rm Fro}$	$6.1\mathrm{n}$	$GL\gamma$	Val
367	765					7 (O					745					7.20
869	∨a.l	ងនាប	Lys	ATG	Val	Arq	Ala	Thr	Lou	Arg	PIO	Mo t	ser	Lys	Ash	G1.
820					725					730					235	
87.2	Arg	$\Delta xq$	Asp	Ser	Ser	Val	Cys	Glu	1.694	Glu	GLn	Arvi	Leu	Arq	Asp	Va.l
273				740					745			-		750	•	
875	Lys	Asn	Thr	Asn	Cys	Arg	Pho	Arg	LVS	Ala	Len	Het	GLu	Lys	Glu	Asn
876			755					760					765	.,		
878	Glu	Len	6.1n	Ala	Leu	rie	PTA	Lys	Leu	Glv	Prio	GJ n	Ala	And	LYS	Tro
879		~ '0					775					780		,		
881	11.0	7. 312	31.7	Val	Thr	CVS	Thr	Glv	GLy	Ser	Asn	Va I	GLy	ser	GIn	Len
882	785	•	•			790					795					800
884	dla	Pro	Lle	Len	Asn	Asp	Astr	Tle	Val	Airo	Lon	See	Λla	Paris	Pro	,
885				•	805	a i s i p				810		17121		. ,	815	
887	Ara	A.r.g	GLn	Mist	Pro	Ser	ľbr	Thr	Val		Glu	Mot	The	Spr		Agn
888				820					825	,,	.,		,	830	*	1 21.0 40
	Sor	Val	Thr		The	Hic	Val	C1 o		hen	Agn	See	Pho	**	Sor	Val
89.1			8.35					840				.,	845		O	1.4.6
	GJ n	Ser		Val	Mode	Ala	Pro		1.60	Pro	Pro	Fige		Lve	[ 12 12	Oln
894		850					855	1,01.	6.0.14			860	1	1.1.0	22 7 49	(12,1)
	Ser		Val	Gin	His	ніа		ніс	A La	Pro	Ala		Thr	Mot	Mol	C.Ln
897	865		,,,,,	(11.14	11.2.5	870	171. 1	111.5	71 J. G	110	875	0 1. 0	1111.	P4C. 1.	PICI I.	880
899		He	Cln	Cln	Cln	-	Clin	C3 II	ніе	1.00		Oln	Hic	clo	Cln	
900	, 1 (,	.1 1 4.	Q.I.II	.,,,,,,	885	1 U	() (, ))	0.11	111.5	890	C) 1, 11	OTH		GIH	895	me C
	a t n	Gla	a Lu	His		c.I.n	eT o	Cla	Cln		Clo	Clo	Med	0.16		72 T. 6
903	O. II	1 3 3, 13	(7.611	900	1.6.14	() [ [ ]	OLD	13.1.11	905	11.1.5	0 1.11	0.011	pre: L	910	OTH	(13.11
	c) n	Glu	Cln		(*) 11	uic	uio	11116		use	Loui	c) n	Lva		7	62.5.55
906	57111	CFFE	915	11111	() 1, 11	1113	111.5	920	21.19	0.15	iae: u	G.i u	925	мія	A511	261
	Vn l	ser		Cla	n la se	400	٨٥١١		Tla	2.10	0 0 20	11.5			The Land	× 2
909	A UT I	930	71,1,73	11111	1 11 1.	авр	935	MAU	1 1 62	15 UZ	26.7	940	1111	Ser	2 11.1	A1.a
	e 1 o		1	Cur	c1	43.1 **		0	000	0	34.0.4		e2 1			cz 1
912	945	Lys	MIG	010.0	OTY	950	asp	Cys	261.	ser	955	Arg	OIU	a.r.g	Arg	
		What		C	6.00		10.00	A				21.1	211			960
	ser	Thr	A L il	SOL		11.18	eyn	Asp	Sen	-	ser	GLB	rnr	PTO		ALa
915		11	1	7	965		0			970			16.1		975	
	Arg	6.00	1. 7 S		Ser	ser	ser	H I.S		ASH	ser	ser	ınr,		110	Ser
918	m1		<i>.</i> • 1 .	980				•	985				<b>~</b> 1.	990		
	1111	ser		ser	OTA	ren			Het	CYS	Pro			ΓŽS	Pro	ser
921	21.1		995	,	. 1 .			1000					005			
923	Allır,	Pro	ATa	٧al	116	rys	Thr	Pro	The	A I.a	ser	Asp	His	Arg	At.d	thr

Input Set : A:\LeA34074.txt

output Set: N:\CRF3\12062000\1715962.raw

924 1010 1015 9.25 Sep Met GT7 Ser Ala Len Lys Ser Ash Phe Val Val Ser Gln Ser Asp E--> 927 025 /025 1030 1035 1040 929 tou Irp Asp Thr His Thr Lou Ser His Ala Lys Cla Ard Gla Ser Pro 930 1045 1050 1055 930 Arg Ash tyr Alb Ser Pro Gln Arg Cys Afa Glu Bis His Gly Gly His 933 1060-1065 1070935 G19 Met Thr Tyr Asp Pro Asi Thr Thr Sor Pro 110 G1n Arg Sec Val 956 1075 1080 1085 938 Ser Glu Lys Asn Arg Asn Lys His Arg Pro Lys Pro Glu Lys Gly Thr 959 -1990 -1095 -1100941 Mal Cys Glm Ser Glu Thr Asp Ser Glu Aru Glu Arg Asp Pro Pro Pro E--> 942 (105) #05 1110 1115 1120 944 Asn Ser Gin Pro Cys Val Gin Pro Arg Lys Val Ser Arg Ser Ser Asn 945 1125 1130 1135 947 The Glu His Ala Ala His His His Ser Ser Pro Ash Val Ala Pro Ash 948 -1140 -1145 -1145950 Lys Gin Arg Ser Arg Gln Arg Gly Lys Gln Asp Ser Ser fle lyr Gly 954 1.155 T160 1465 953 Ala Ser Ser Glu Thr Glu Leo Leo Glu Gly Glu Thr Ala fle Leo Pro 954 1170 1175 1180 962 Val. Glu Tyr Len 963 1220 1306 <210> SEQ ID NO: 6 1307 <211> LENGTH: 1305 1308 <212> TYPE: PRI 1309 <213> ORGANISM: Drosophila melanogaster 1311 <400> SEQUENCE: 6 1312 Met Arg Ile fle Gln Pro Val Gln Gly Thr Arg Tyr Gly Pro Frp Pro 1313 1 5 1.0 1315 Ala Val Gly Leu Arg Leu Val Leu Ala Leu Ala Erp Ala 1hr Ser Ala 1315 \$20\$ \$20\$1318 Ala Ala Ala Met Glu Ser Ser Ala Glu Leu Glu Ala Leu Gly His Glu 1319 35 40 451321 Ala i.te Arg Pro Giv Ala Ala Ser 11e Ser Thr Ser Ser Pro Ser Ser 1322 -50 -55 -601324 Sec Pro Pro Gly Glo Ser Ala Ser thr Val thr Ala Gly Gly Phr Pro 1325 -65 -70 -75 -801330 Arg Glu Glb Arg teu Asn Ser His Ser Asn Leu Pro Gly Sex Phr Asn 1331 \$100\$ \$100\$ \$105\$1336 Leu Lys Val Asn Glm Val Phe Glu Ser Glu Arg Arg Met Ser Pro Ala

## Best Available Copy

RAW SEQUENCE LISTING
PRIEM! APPLICATION: US/09/715,962 10.11: 12/00/2000 1100: 45:14:13

Input Set : A:\LeA34074.txt
Output Set: N:\CRF3\12062000\1715962.raw

1337		1 53					135					1.10				
1339	// 2		C 1 6	3 12 1	B	113.3			1.12	Mrs. I		149			to be as	
1.19		MC1.	4111	41.71	75011	150	642	1.7 2.	1.147	V (1 1		140.11	GIŢ	LCu	1,116;	
			e 1 .	e .							4.35		α.			144
1312	HOU	501	1 11 [	50%		OILA	PEO	WIG	Pio		OH	1.00	50 ° E	0.20		G J. V
1343					165					170					175	
1545	Ala	814	l h.c		Ala	Va I	GTu	His		Asu	Arg	Lys	Ary		Leu	1, 0
1 -46				130					185					190		
1318	GLy	1, 1, 2,		1 0 0	C(1)0	Lou	Vai	Thr	ASD	$\alpha$ sp	lhr	GIn	CUB	Asp	Pro	Gly
1319			195					3.00					205			
1351	Val		Val.	Asp	ALG	Pho		His	A1d	He	T > 1	1hr	cm	PTO	Ser	1111
1351		110					215					3z0				
1354	A T Q	Met	Varl	Medi	1 en	Leu	GLV	Set	Ala	Cys	ser	GLu	Yal	Thr	Glu	ser
3.55	225					230					.235					240
1357	Lon	A.La	LVS	Val	Val	Pro	Tyr	Trp	Asn	110	Val	Gin	Val	Ser	Phe	Gly
1358					245					250					155	
1360	Sect	Thr	Sur	Pin	Ala	Len	Ser	Asp	Ara	Arq	G) u	Phe	Pro	Tyr	جبارع	$T \supseteq \mathcal{X}$
1561				260					265	•				270		
1363	Ard	the	Val	Ata	Pro	ASD	Ser	Ser	His	Asn	Pro	Ala	Arn	110	Ala	Phe
1364			275			•		280					285			
1365	He	Ara		Phe	Giv	Tro	GTV		Val	The	Thr	Pho		G.Ln	Asn	Clu
1367	- 14 15	290					295					300	2	., ., .,		
1369	Cin		nie	Sec	Len	Ala		A c n	nen.	[ (2))	V !		Gin	Lebin	chi	Ala
1370					7. 13.1	31.0	,		2	250 12	3.15		(1).11	1	(12.11	320
1,372		Acn	Llia	Sect	CVE		Ala	The	Ha	1 b e		Λ٦٠٠	Ala	Phr	Aer	
1373	2 1,2, 42	11.71.	.4 .4, .	57.5.4	325	11.1 (2	mu	1 11.1	-1. a. c.	330	1111.	713,04	21111		335	1110
1375	Luc	C.Lu	G1 n	Vicor		1 (5) 1	fau	A ro	c.to		Zen	The	2.20	11.5		11.5
1375	1. 3 5	CI,LII	(3.1.11	340	1762 (1	Little	1.6711	Mid	345	1111.	r.sp	11(1,	ма	350	1.16	1.00
1378	000	S 0	tiba		c1	22.3.11	Lavi	A 1 9		C. Ce.	T L.	T	Cura		A 1 11	T
1379	01.5	26.1	355	20 6.17	CLU	GIU	Leu	360	610	() [.1]	1.68	174411	365	0.10	MIG	13.1
	A	700		113.4	ri3s	c1	A 1 ·s		1	A 1 c.	f.u.s.	115		11.1.0	er 3	
1381	wrd	370	ита	14Q t.	1.1167	GLY	375	asp	171	MIG	1 1 p	380	T:(311	1115	6111	5-:T
	Mode		A 1 m	n.e.s.	di en	Telev		A	cla	2	mt. e		Cur	Cum	7 (1.1)	0.1.5
1384 1385		U.I.Y	7/1 21	МО	тīр	390	PIO	ASP	G.111	MIG	395	MId	1.78	ser	ASH	
			0.1.0						F 4							400
1387	GIU	1.0/0	GIR	reu		val	() I U	ASh	reu		vai	V (i ]	Ser	inr		ASI
1388		9.1.	V 1		405					410					415	
1390	ser	14.0	A 9 T		ASII	ASII	vai.	ser		ser	GJY	Leu	ASII		His	Met.
1391	61.			420					425			es l		430		
1393	Phe	ASH		GIR	Leu	Arg	Lys		Ser	A.I.a	GLII	Phe		GIT	GIn	Asp
1394			435					440					445			
1396	G I. 7		GTY	Sor	GAY	LAT		Pro	Δrq	Tie	SCT		ALa	A.la	Thr	GIn
1397		450					455					460				
1399		Asp	Ser	Arg	Arg		Ary	Arq	Arg	GTY		Val	Gly	Thr	ser	
1400						470					475					480
1402	GLV	His	resti	Phe		GLu	A.l a	The	ser		171	Ala	Pro	G.l.n		$T \vee \tau$
1403					185					490					495	
1405	Asp	Λla	Val		A1a	$\Pi$ le	Ala	ren		Leu	Arg	λla	Ala		GLu	His
1405				500					505					510		
1408	Trp	Arg	Arg	Asn	Clu	Glu	Gln		L; s	$T_i \otimes u$	Asp	Gly	Phe	Asp	T'y.r	Thr
1409			515					520					525			

RAW SEQUENCE LISTING PARLICATION. US/09/715,962

140F: 12/76/2000

Input Set : A:\LeA34074.txt
Output Set: N:\CRF3\12062000\1715962.raw

$\frac{1411}{1412}$	8.4°M	Se.1	Asp	Het	Ala	Trp	G1a 535	(4)103	Leu	Glu	Gin	Mest. 540	Gly	1. + 8)	Len	hls
1414		1 (21)	GTV	Val	Ser	G17 350	Pro	Väl	ser	Pho	841 655	üly	Pro	.sip	Arq	Vai 560
1417		Thr	Thr	2.10	ithe So 5	171	Gin	1 l.e	GLn	Arg 570	GLV	Leu	Len	GJ u	Pro 575	
1421	Alu	L+ u	170	1 v r 580		Ala	i lii	សន្ធ	A1a 585		Asp	Phe	$At^{\prime}0$	C78		Arg
11.11	Crs	Aiŋ	Ржо 595		Lys	${\rm trp}$	Iti.s	Ser 500		C.l.n	Val	Pro	11e 605		Lys	Arq
1.4.2%	Verl	Pho 610		Len	Arg	Val			14e	Ala	Pro			Pho	lγr	Ihr
1427			1 h r	Lou	ser		615 Val	Cly	11.0	Ala		620 Ala	110	Titl	Pho	
1430		Phe	ASD	Len		630 Phe	Arg	Lys	Levu		635 Ala	11.6	Lys	Leiu		640 Ser
$\frac{1433}{1435}$	Pro	1./8	Lou		645 Asn	11e	'I lir	ΛΙὰ		650 617	Cys	He	Pho		655 17r	Ala
$\frac{14.56}{14.38}$	Thr	Val		560 T.eu	Len	GLy	Lesu	Asp	665 His	Ser	The	1.0211	Fro	570 Berr	Λla	G.Lu
$\frac{1439}{1441}$	Asp	ser	675 Phe	Δla	Thr	Val	Cys	680 Fhr	Λla	Arg	Val.	Туг	585 Leu	1,6:11	Ser	Ala
1442 1444	617	e90 Phe	ser	Leu	Ala	Phe	695 Gly	Ser	Мет	Pho	A.I.a	700 Lys	Thr	Tyr	Arg	Val
1445 1447		Arg	f.Le	Pho	The	710 Arg	The	Gl7	Ser	Val	715 Phe	Lvs	Asp	Lvs	Hest	720 Len
1448 1450					725					730					735	
1451 1453				740					745					750		
1454 1456			755					760					765			
1457 1459		770					775					780				
1460	785					790					795					800
1463					805		-	-	-	81.0					845	
1465 1466				820					825	-				830		
1468			835		-			840	-				845			
1471		850					855					860				
1474	865					870					875					0.88
1478					885					890					895	
$\frac{1480}{1481}$			-	900					905	_				910	_	
1483	Thr	Arg	Ang	Phe	Vul	Val.	Asp	Asp	Arg	Arg	Glu	1.eu	G.l a	Tyr	Arg	Val

RAW SEQUENCE LISTING
PACKED APPLICATION: US/05/715,962 Leader (2/06/2000 TYME: 15:14:13

input Set : A:\LeA34074.txt
.mrput Set: N:\CRF3\12062000\1715962.raw

	144								020								
	1464			915										925			
	1436			C.In	ASH	arg			L'S	tys	ULU	1111		ATd	1500	as b	A 1 (1
	143		930					V 4.					-11 ()				
	1199		14.0	-1.0	$T^{1/2}$	t.eu			Lon	100	Glu		017	LOH	1 hr	Lhi	
	1430						256					955					14 Ú (I
	T1oS	Sec	thi	$\Gamma h \mathfrak{c}$	Hir	sex	SCT	ser	1 h r	Ser	Leu	1, 041	Thr	G1y	GLY		h
	=4					965					930					$0.2 \; \mathcal{Q}$	
	1495	£eu	Lis	Pro	Glu	Leu	thi	Val	Thr	Ser	Gly	110	S(c)	Gln	h hm	Pxo	Ala
	1496				980					985					990		
	1498	Liu	Ser	Lys	Asu	Arg	Thr	Pro	ser	1.10	ser	617	1.1c	Len	PEC	Asn	Leu
	1459			0.04		•		.3	UUU				.1	1005			
	1561	Leu	1,631	Ser	Va L	Leu	Pro				Pro	Arm	Ala	Ser	Tro	Piro	Ser
	1502		1010			,		1015					020	4 2. 7	• • •		
	1504			TVO	Mot	Clo			i.l.a t	A min	2. 0.75			The	Dhia	Alla	800
F>	1505			1,7,	1.65, 1		L030	1 1.17	110.	751.19		1035	Y G/1,				040
1	1507				1			8 I o	Cura	1.30			· 1 · .	ħ o v	1.00		
		1,5,111	1,100	13.1.11		1045	Oth	ALG	1. y S		050	A CO	Ca.L 11	ивр		.055	7.511
	1508												1	71 h			
	1,5.10	T'C.11	Wid			HIS	(1.1)	OTB			GLU	71.1.41	Lys			1,011	1.103
	1511				1060	41.1				1045		um 1			0.70		
	1513	ASD			Arq	GIV	1.16			Arq	1 p.r.	THE			ASH	LS	GJAV
	1514			1075					080					1.085			
	1516				Ser	Leu			GIR	Lys	GTy			Ala	Alu	Phe	L7S
	1517		1090					1095					100				
	1519			Ы€ t.	GLV			lhr	<i>t</i> . Let	1'6-11			Ser	Ser	Gln	Thr	Ala
E>	1520						1110					.115					120
	1322	Ser	Cys	$A\mathbf{S}\mathbf{H}$	A.La	11e	$\tau_{YT}$	ASU	Asn			GIn	ASP	Ser	T.1 6	$_{\rm LLO}$	Sev
	1523					1125					.130					135	
	1525	Glu	$\Lambda 1$ a	Ser	ser	Кis	Pro	$\Delta s n$	Gly	Asn	H i.s	Leu	Lys	1,10	Ile	0.5	61.9
	1526				140				]	1145					1150		
	1528	617	Ser	Lem	Thu	$L \vee S$	ser	GLY	$1  \mathrm{hr}$	His	Leu	Asp	His	Leu	Thr	Lys	Asp
	1539		]	1155				1	1.160					1165			
	1533	Pro	Asn	Phe	Leu	Pro	T1e	Pico	Thr	1.1 €	ser	Gly	QTy.	GLu	Glu	Cly	Asp
	1532		1170					1175					180				
	4534	G.Ln	Thr	Len	GLY	GI:	Lys	Fyr	Val	Lys	Leu	Leu	G.Lu	Thr	Lys	va1	Asn
E>	15.3/5				•		1190			•		195			•		200
	1534			Leu	Pro	Ser	Asn	Ara	Arg	Pro	Sec	Val	va L	GLn	GIn	Pro	Pro
	1538					1205					210					215	
	1540		Leu	Aro			Va1	Ara	Glv			Ara	pho	Pro			ile
	1541				1020			,		1225		,			230	,	
	1543	1.cm	Pro				Ser	Lou			Leu	Ala	Glu			Aso	Ara
	1544			1235					240					1245			
	1546	Pro			Sam	rier.	Sor			0.15	Sint	Cvs			The	Pro	Ara
	1547				1701,			1255		0.7	.,,,,,		.260		1 / (	110	7 7 7 7
	1549		-		Clo	Clo				0.157	210			100	Sar	Mot	ala.
F>	1550			LCU	0.11		Va. 1270		(3 6.1)	OILY		1111	ттр	c.y in	ogt		280
E	•								41.5.55	1	_			03.	/·1.	_	
	1552 1553		Aril	GI/		Ser 1285	wid	uetu	961		617 1290		ser.	CLLII		.295	OLU
	1555		01				100	c1	Tale at		レンソリ				7	.293	
		OLD	OTH			Aid	ASII	ury									
	1556				1300					1305							

## Best Available Copy

VERIFICATION SUMMARY

DATE: 12/06/2600 TIME: 15.14:44

PAIRMI APPLICATION: US/09/715,962

Input Set : A:\LeA34074.txt

Output Set: N:\CRF3\12062000\1715962.raw

1:3 H:279 C: Current Application Mumber differs. Replaced Application Humber  $0: (0,H;2^q)$  C: Current Filing base differs. Poplaced Current Filing Date First Middle E. (32) Invalid/Missing Amino Acid Humberton, SEQ TD:4 Mir ?2 Depeated in Seque 4 L:1305 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEG 1D:6

 $\mathrm{H}:352$  Repeated in SeqNo+5